

Manchester Climate Change Framework 2020-25

Appendix 2:
Manchester Climate Change Partnership
Members' Action Plans – summary

MANCHESTER
CLIMATE CHANGE PARTNERSHIP

MANCHESTER
CLIMATE CHANGE AGENCY

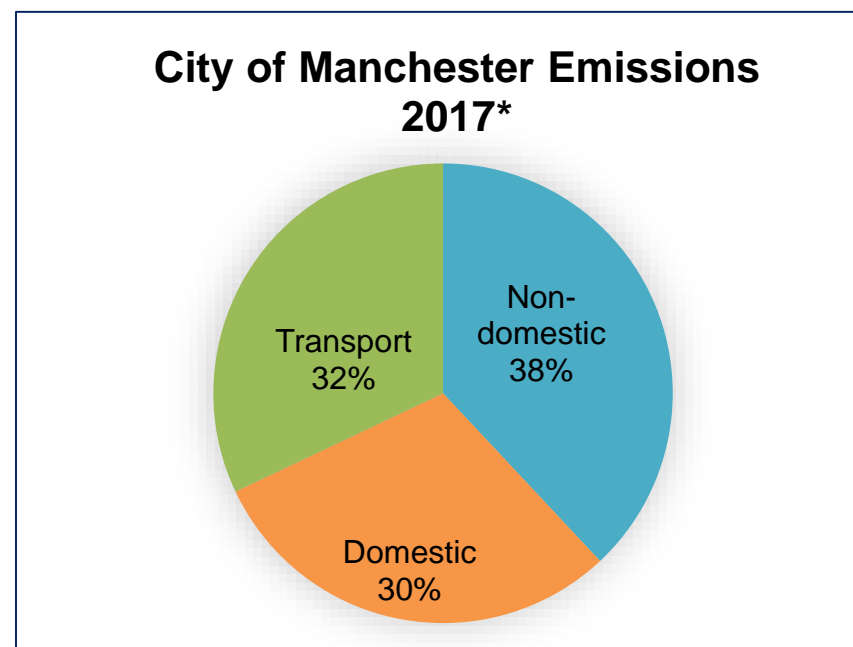
 ZERO
CARBON
MANCHESTER

Introduction

This document is a summary of the actions planned to be taken by the Manchester Climate Change Partnership (MCCP) members during 2020-25. Each member's profile includes their latest buildings and transport CO₂ emissions. The members' buildings emissions are shown in the pie chart as a percentage of the city's total emissions. A breakdown of transport emissions is displayed in a table. This was done as we are confident that buildings emissions are within the Manchester boundary whereas for transport, the boundary is harder to establish (i.e. journeys may start outside Manchester). In some cases estimations have been made which are explained in the footnotes. In cases where primary data is not available estimates have been provided, to be used as the basis of improvements in future reports.

Some organisations have reported their emissions in CO₂e (which includes non-CO₂ greenhouse gases) while others have reported just CO₂ emissions. However, given non-CO₂ greenhouse gases make up a very small percentage of the city's total emissions it does not make a significant difference to the figures in this document.

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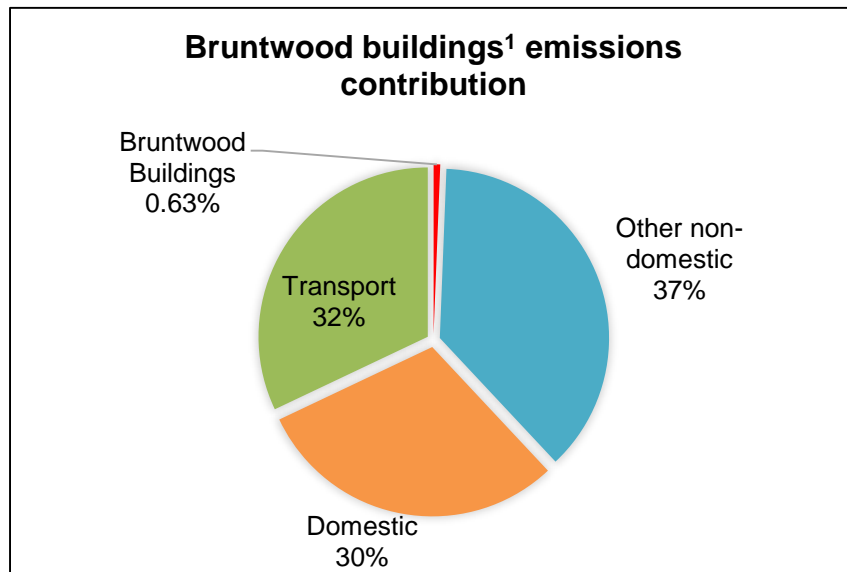


*BEIS city level emissions dataset for 2017 (Published in June 2019)

1. Bruntwood

Profile:

- Bruntwood own, let and manage buildings, workspace, and science facilities.
- They work with over 3,000 businesses and own over 100 landmark properties (nationally).
- Bruntwood were the first UK commercial property company to sign the World Green Building Council's Advancing Net Zero commitment
- Two parts of the business are relevant to Manchester:
 1. Sci-Tech (property portfolio dedicated to driving the growth of the science and technology sector)
 2. Works (office space leasing to other businesses).



| | |
|--|-------------------------|
| Buildings (Including customer energy consumption)² | 13,076 tCO ₂ |
| Buildings (Directly owned & controlled)³ | 5,385 tCO ₂ |

| Transport | tCO ₂ |
|------------------------------|------------------|
| Business travel ⁴ | 80 |
| Staff commuting | - |
| Visitor travel | - |



¹The 0.63% figure includes emissions from Bruntwood's offices and communal spaces as well as customer energy consumption.

²Customer/tenant energy consumption calculated based on estimates of where they get their energy supply from

³Emissions from Bruntwood offices and areas where Bruntwood has operational control.

⁴ Manchester only travel figure estimated to be 1/3rd of Bruntwood's total business travel.

The following is a summary of Bruntwood's Zero Carbon Action Plan 2020-2025.

1. Headline achievements 2019/2020 - Your emissions: What are the two key actions that your organization/sector took between April 2019 to March 2020 to reduce the CO₂ emissions directly under its control?

1. Invested in a solar deployment strategy across a number of our buildings.
2. Utilising sensor technology – we introduced a number of sensors in our MCR city centre and Trafford offices to monitor CO₂, humidity and temperature. Using the data from these sensors, we have introduced green infrastructure to reduce CO₂ levels and manage temperatures.

2. Headline achievements 2019/2020 - Your stakeholders: What are the two key actions that your organization/sector took between April 2019 to March 2020 to influence or support its stakeholders to reduce their CO₂ emissions?

1. The solar strategy mentioned above will directly impact our customers / stakeholders.
2. Stakeholder engagement programme – including colleagues, customers and communities.

3. Headline targets achieved by 2025: What specific CO₂ reduction targets do you aim to have achieved by 2025?

Reduce carbon intensity (kgCO₂e/m²) by 100% by 2030 compared to a 2017/18 baseline.

4. Urgent Actions for 2020-2025 - Your emissions: What are some urgent actions your organization/sector will take in the next five years to reduce the CO₂ emissions directly under its control?

1. Develop Science Based Targets for Scope 3 emissions
2. Procure 100% renewable electricity for all of our estate
3. Consumption from onsite renewables
4. Reduce energy intensity (kWh/m²)

5. Urgent Actions for 2020-2025 - Your stakeholders: What are some urgent actions your organization/sector will take in the next five years to influence or support its stakeholders to reduce their CO₂ emissions?

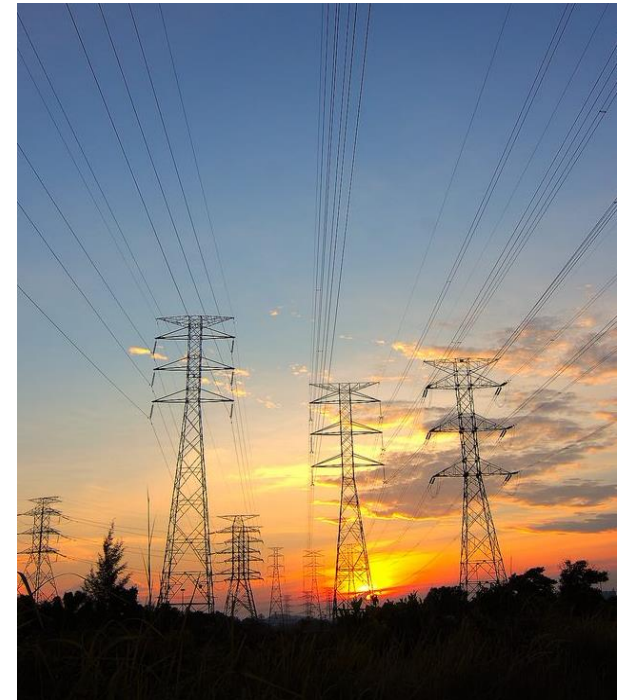
1. Work with our customers to educate on how best to use the spaces they occupy in the most efficient.
2. Work together with MCC, GMCA, M CCP in support of their zero carbon plans
3. Encourage other property businesses to create their own sustainability strategies with targets for CO₂ emissions

2. Electricity North West (ENW)



Profile

- Electricity North West is the electricity distribution network operator ('DNO'), responsible for the administration and maintenance of the network, that distributes electricity throughout the North West of England.
- ENW launched their *Leading the North West to Zero Carbon* plan in 2019



ENW's total emissions for FY2019 were 20,416.71 tCO₂e. An estimate by population (Manchester is 7% of the North West population) can be made to establish a Manchester proportion of the total emissions (0.02%). This is a broad estimate to get an idea of ENW's contribution to the city's emissions. In the absence of accurate "Manchester only" emissions data, it is useful to mention that when it comes to reporting, ensuring that a company's emissions are being measured, reported and used to drive CO₂ reduction actions is a priority and as long as tangible actions are being taken, the absence of Manchester only data is less problematic.

2. Electricity North West (ENW)



The following is a summary of ENW's Zero Carbon Action Plan 2020-2025. The full plan can be found: <https://www.enwl.co.uk/globalassets/zero-carbon/documents/leading-the-north-west-to-zero--carbon.pdf>

1. Headline achievements 2019/2020 - Your emissions: What are the two key actions that your organization/sector took between April 2019 to March 2020 to reduce the CO₂ emissions directly under its control?

We launched our Leading the North West to Zero Carbon Plan, which will see us spending £63.5m to decarbonise our own operations and help businesses, colleagues and customers to do the same in the next three years.

2. Headline achievements 2019/2020 - Your stakeholders: What are the two key actions that your organization/sector took between April 2019 to March 2020 to influence or support its stakeholders to reduce their CO₂ emissions?

We commissioned research with the Tyndall Centre into what the top five things that SMEs should do now to decarbonise. We're now feeding that information into SMEs. We increased our business to business engagement to help business users and local authorities.

3. Headline targets achieved by 2025: What specific CO₂ reduction targets do you aim to have achieved by 2025?

10% reductions year on year for our own operations, two carbon neutral depots, roll out our Smart Street technology, which optimises the voltage on the electricity network, making domestic appliances run more efficiently and potentially saving customers up to £60 per a year on their electricity bill.

4. Urgent Actions for 2020-2025 - Your emissions: What are some urgent actions your organization/sector will take in the next five years to reduce the CO₂ emissions directly under its control?

Help to increase the amount of renewable generation connected to the network and invest to ensure that there's capacity required to support the mass adoption of low carbon technologies.

5. Urgent Actions for 2020-2025 - Your stakeholders: What are some urgent actions your organization/sector will take in the next five years to influence or support its stakeholders to reduce their CO₂ emissions?

Provide trusted impartial advice and support to stakeholders to enable them to make least regrets investment decisions in low carbon technologies.

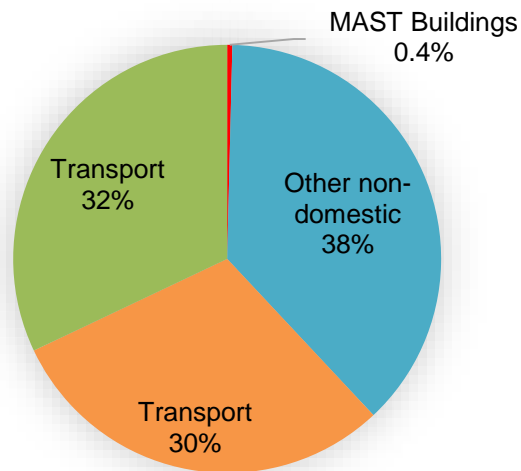
3. Manchester Arts Sustainability Team (MAST)

Profile:

- The Manchester Arts Sustainability Team (MAST) is a cross-sector network of cultural and arts organisations committed to working together to reduce their environmental impacts
- MAST has over 30 members¹: 7 arts centres, 2 theatres, 3 museums, 3 galleries, 2 festivals, 2 broadcasters¹, 1 music venue, 1 concert hall, 1 production company, 1 digital innovation company, 1 recycling company, 1 university¹, 1 college, 1 city council¹.
- Key opportunity to influence member and attendee behaviours in addition to their own buildings and transport.

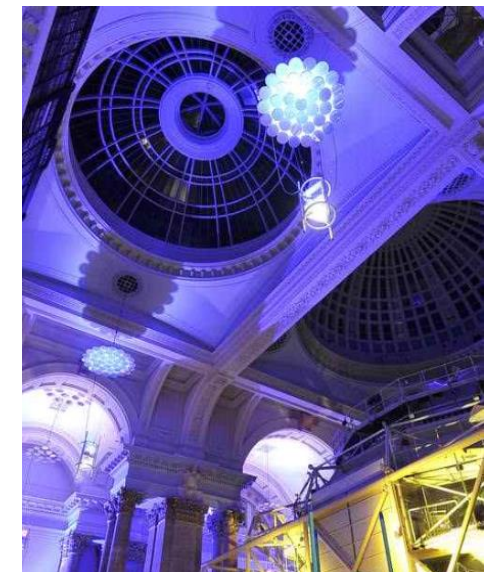


MAST Buildings Emissions Contribution



Buildings (Directly² Owned & Controlled) 8,124 tCO₂e

| Transport | tCO ₂ e |
|-----------------|--------------------|
| Business travel | - |
| Staff commuting | - |
| Visitor travel | - |



¹The City Council and University of Manchester (UoM) are reported separately. Broadcasters (BBC & ITV) and the Lowry are outside of the City boundary, however, will be represented in the action plans. Note that data is based on the 2011-2016 [report](#): “5 years of cultural collaboration for a more sustainable Manchester” (which uses data reported via Julie’s Bicycle). Since the publishing of this report, some organisations are no longer a part of MAST and new organisations have joined. However in the absence of a formal report or listing of those organisations and their emissions data, the 2011-2016 report has been used until more recent information becomes available.

²The buildings emissions figure represents 22 organisations, 13 of which reported in the 2011-2016 report and estimates were made for the remaining 9, using an average of 13 that did (12 excluding the Lowry due to it being out of boundary in Salford).

3. Manchester Arts Sustainability Team (MAST)

The following is a summary of MAST's Draft Zero Carbon Action Plan 2020-2025 on behalf of the culture sector. The full plan is in consultation and will be published in April 2020

1. **Headline achievements 2019/2020 - Your emissions:** What are the two key actions that your organization/sector took between April 2019 to March 2020 to reduce the CO₂ emissions directly under its control?

During 2019-20 two specific funded projects have been active to help us imagine a zero carbon culture sector in our city and region. C-Change is an URBACT transfer network being led by MCC and MAST and sees us share our collaborative model with five other EU cities. For MAST and Manchester this has been focused on creating better pathways between the sector and the municipality, looking at areas for policy development, formalising a relationship between MAST and the city's cultural leaders as well as expanding the network and its reach into the Combined Authority.

MAST has also been part of Arts Council England – Accelerator Programme exploring our roadmap to zero carbon where we have explored ambition and challenge. Three MAST member organisations are participating in ACE's Spotlight Programme focusing on science-based targets and zero carbon pathways for buildings.

2. **Headline achievements 2019/2020 - Your stakeholders:** What are the two key actions that your organization/sector took between April 2019 to March 2020 to influence or support its stakeholders to reduce their CO₂ emissions?

We have as part of C-Change matched the funding to create climate change themed cultural activities acknowledging that our sector has great opportunity around engaging with citizens. MAST has also continued working closely with the GM Business Growth Hub to explore sustainable procurement and what our zero carbon sector may look like and the journey to get there. MAST is evolving a new vision and mission to better support and motivate the sector to deliver the city's zero carbon target.

3. **Headline targets achieved by 2025:** What specific CO₂ reduction targets do you aim to have achieved by 2025?

To reduce our carbon footprint by 50% from 18-19 levels based on energy as well as working to achieve quantifiable reductions in our impacts relating to water, waste and business travel.

Position - MAST will help the sector to better report its carbon in line with the developing methodology for the city. We will also work to ensure that this is compatible with other reporting that the funded part of the sector currently submits. Areas which need focus included business travel including aviation and a better understanding of our staff and the impact of audience travel.

Place - Cultural spaces both permanent and temporary must have less impact going forward. We must focus on energy efficiency, water conservation, green procurement, reduction in waste and single use materials. We acknowledge that we must support biodiversity wherever possible. In line with ACE capital policy future investment in cultural places should prioritise refurbishment to help achieve less impact and using what we already have, over new build and new construction.

Practice - Our city and region are culturally rich with much creativity and innovation. The way we make our work, present and move it must evolve as must our collaboration and sharing of resource. Key areas for improvement include reducing the impact of materials we use through circular economy models and reduction of carbon through our investments such as banking, pensions and sponsorship we receive.

3. Manchester Arts Sustainability Team (MAST)

People - We recognise our sector's strength with advocacy and that we can help engage residents and communities in taking climate actions. We commit to making and delivering creative output to help promote greater understanding. We will help reduce the impact of consumption when we bring people together. We enjoy a large creative community and will continue to skill and educate in low carbon best practice. We will continue to openly share our sector specific version of Carbon Literacy and other learning. We commit to seeking deeper collaboration and collective action within our sector regionally, nationally and internationally and to share our practice and learn from others.

Policy - In order to advocate for change we will lobby to empower and enable our sector to deliver our targets. We will recommend that individual organisations share policy and targets with each other and the communities we serve. We will focus particularly on funding to enable our places to reduce their impact as well as improving access to culture by low and zero carbon means. We will lobby for all cultural funding to recognise the impact of climate change and enable positive action through funding to enable retrofit to remove reliance on fossil fuels.

Planning - We commit to continuing to plan for our collective future and recognise that some of our ambition may not be possible within the next 5 years and more likely to be achieved in a subsequent period. We will use this to prioritise the most effective methods of carbon reduction that can be achieved during this action plan. We acknowledge that MAST must now evolve and change to better support the sector and will seek partners to enable this.

4. Urgent Actions for 2020-2025 - Your emissions: What are some urgent actions your organization/sector will take in the next five years to reduce the CO₂ emissions directly under its control?

We will develop specific projects to enable urgent action in the following areas:

- Energy management, efficiency and green procurement.
- Business, staff and audience travel.
- Joint action with our landlords and tenants.
- The recognition that sustainability is a priority within cultural organisations and must be appropriately resourced in future business planning.

5. Urgent Actions for 2020-2025 - Your stakeholders: What are some urgent actions your organization/sector will take in the next five years to influence or support its stakeholders to reduce their CO₂ emissions?

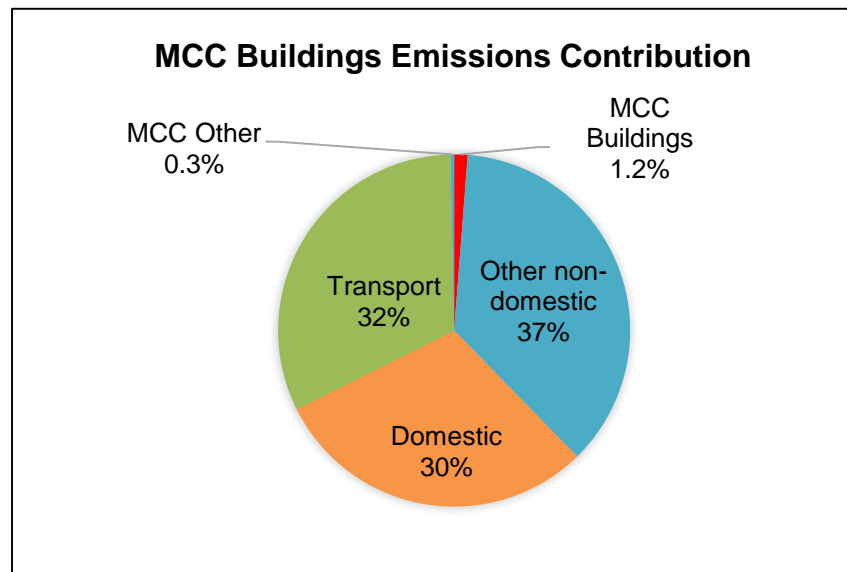
We commit to:

- Consistently present climate related cultural work that will engage with citizens.
- Mobilise the creative community through education and support.
- Deeper collaboration, knowledge and resource sharing at all levels.
- Evolve our network to better deliver support to our sector.
- Invest and explore more effective climate leadership for our sector.

4. Manchester City Council (MCC)

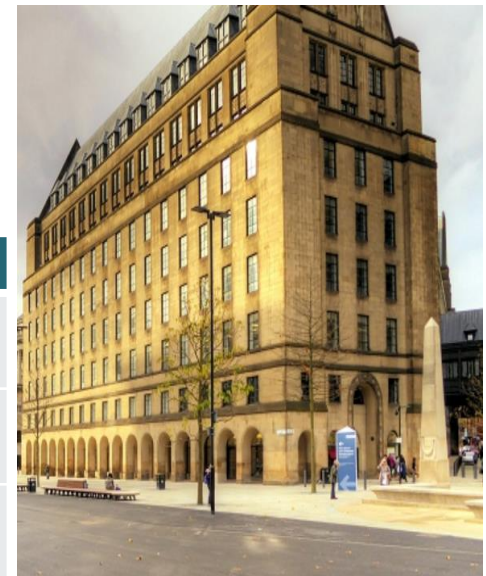
Profile:

- Manchester City Council’s (MCC) direct emissions 2018/19 were split into Buildings and Other.
- “Other” includes traffic signaling¹ and streetlights.
- Business Travel includes MCC Fleet, MCC Grey Fleet, MCC Taxis, MCC Train, MCC Air Travel, MCC Car Club, Waste Collection Fleet



Buildings (Directly Owned & Controlled) 25,789 tCO₂

| Transport | tCO ₂ |
|-----------------|------------------|
| Business travel | 4,621 |
| Staff commuting | - |
| Visitor travel | - |



¹In the following years traffic signals are expected be accounted for at a Greater Manchester level and will therefore not be included in MCC emissions

4. Manchester City Council (MCC)

The following is a summary of Manchester City Council's Climate Change Action Plan 2020-2025. The full plan can be found:

www.manchester.gov.uk/zerocarbon

1. Headline achievements 2019/2020 - Your emissions: What are the two key actions that your organization/sector took between April 2019 to March 2020 to reduce the CO₂ emissions directly under its control?

- Established a Zero Carbon Coordination Group and associated programme management to embed zero carbon into all Council decision making.
- Civic Quarter Heat Network construction at a cost of £26 million which will save 1,600 tonnes of CO₂ per annum.

2. Headline achievements 2019/2020 - Your stakeholders: What are the two key actions that your organization/sector took between April 2019 to March 2020 to influence or support its stakeholders to reduce their CO₂ emissions?

- Held two Youth Climate Summits in July 2019 and January 2020 to engage young people and schools in support of the climate emergency.
- Trialled an additional 10% environmental social value weighting on tenders to increase the total social value weighting to 30%.

3. Headline targets achieved by 2025: What specific CO₂ reduction targets do you aim to have achieved by 2025?

At least a 50% reduction in the Councils direct CO₂ emissions by 2025.

4. Urgent Actions for 2020-2025 - Your emissions: What are some urgent actions your organization/sector will take in the next five years to reduce the CO₂ emissions directly under its control?

- Roll out a programme of energy efficiency and energy generation investment across Council operated buildings.
- Agree a business case and funding to replacement half of the Biffa Waste Lorry fleet with Electric Vehicles.
- Develop a feasibility study and business case for a large scale energy generation site.
- Roll out the Our Climate, Our City Carbon Literacy training across the organisation.

5. Urgent Actions for 2020-2025 - Your stakeholders: What are some urgent actions your organization/sector will take in the next five years to influence or support its stakeholders to reduce their CO₂ emissions?

- Embed the additional 10% social value weighting for the environment into all tenders.
- Arrange events with the city's schools to support them to improve energy efficiency and develop energy generation across their buildings.
- Deliver a citywide communications campaign to support behaviour change in residents, workers and businesses.
- Deliver bespoke information sessions to businesses and organisations in the city.
- Develop a new Local Plan (citywide planning document) by 2023.

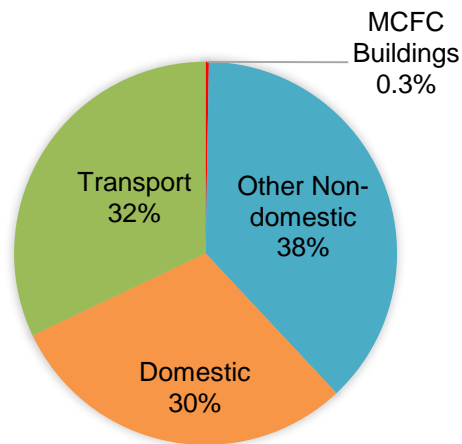
5. Manchester City Football Club (MCFC)



Profile:

- Over 30 football¹ & concert events held by Manchester City Football Club over the year.
- Each event attended by c.50,000 people per event.
- Estate comprises of the main Etihad stadium plus a number of offices and training buildings and facilities.

MCFC Buildings Emissions Contribution



Buildings (Directly Owned & Controlled) 5,756 tCO₂

| Transport | tCO ₂ |
|-----------------|------------------|
| Business travel | 5,630 |
| Staff commuting | 2,664 |
| Visitor travel | 1,990 |



¹ All competitions

5. Manchester City Football Club (MCFC)



The following is a summary of Manchester City's Zero Carbon Action Plan 2020-2025. The full plan will be available from March 2020

1. Headline achievements 2019/2020 - Your emissions: What are the two key actions that your organization/sector took between April 2019 to March 2020 to reduce the CO₂ emissions directly under its control?

- Completed the change of light fittings (Stadium) to LED, reducing consumption by just over 1million kw/h
- Begun an active programme of energy use behaviours to reduce consumption and energy waste across the organisation – going well

2. Headline achievements 2019/2020 - Your stakeholders: What are the two key actions that your organization/sector took between April 2019 to March 2020 to influence or support its stakeholders to reduce their CO₂ emissions?

- We are working with partners and stakeholders across the Etihad Campus to share information and benefits – resulting in Campus framework
- Reduced packaging (inward and outward) and with partners/stakeholders removed all single-use plastic from match/event days and have on trial an anaerobic digester for both food and grass waste where source reduction isn't possible

3. Headline targets achieved by 2025: What specific CO₂ reduction targets do you aim to have achieved by 2025?

- Significant change in energy consumption behaviours - 1,000,000 Kw/h of energy via change to LED
- Removal of all consumable plastics, packaging across the business - 88,000 single use plastic cups per match/concert (x23) = reduction of 2.2million/annum
- A practical and credible travel and transport plan that is working and in place – with emphasis on active travel – for fans, staff, visitors - Authorised travel reduction of 5% and fan travel by 2.3% (estimated)
- The further development of our biodiversity and ecology – with year-on-year growth in habitat, wildlife and active engagement
- The development of estate and property in line with the UN Sustainable Development Goals
- Realisation of triple bottom line across the business demonstrating the protection of the business and its growth with authentic results in social value and environmental impact (reduction)
- A fully engaged, knowledgeable and innovative workforce and supported base that champions best practice and challenges actions and impact.

4. Urgent Actions for 2020-2025 - Your emissions: What are some urgent actions your organization/sector will take in the next five years to reduce the CO₂ emissions directly under its control?

- Transport and travel - we have put in place a new travel plan and authorisation for staff/authorised travel that seeks both financial and CO₂ calculations to ensure reduction and awareness of both – the aim is to achieve a reduction in travel of circa 10% annum and uplifted use of desk-desk conference calling
- Energy consumption – managing heat/cooling loss; reduction by 1.5% in heating and cooling temps – review of BMS and PIR holding times

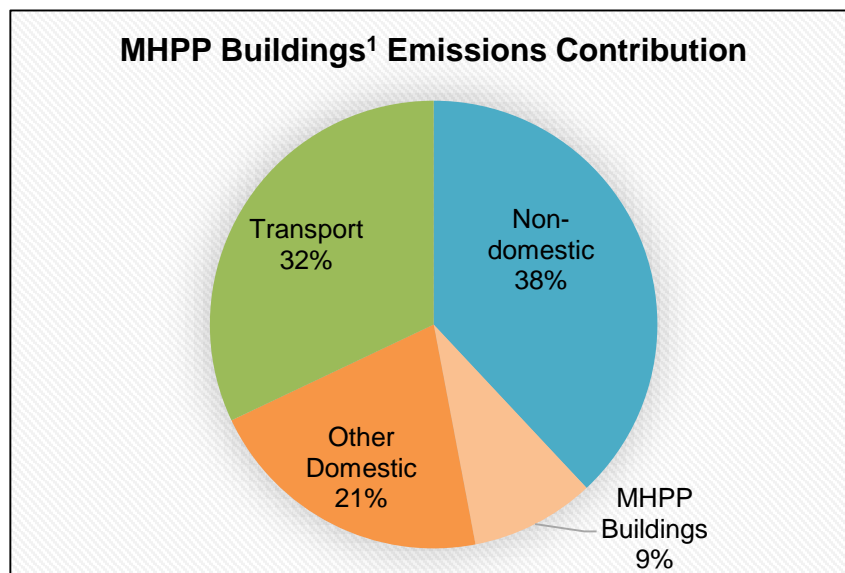
5. Urgent Actions for 2020-2025 - Your stakeholders: What are some urgent actions your organization/sector will take in the next five years to influence or support its stakeholders to reduce their CO₂ emissions?

- Transport - working with stakeholders and partners to promote best use of walking routes, cycling and public transport over the five years, existing action plan that will aim to see a move to sustainable and/or active travel of up to 30%
- Energy - sharing aims and information about consumption behaviours and changes in a range of actions that include stand-by; materials/fabric first; and promoting best practice and opportunities by way of profile, best practice sharing, incentives
- Waste, packaging, plastics - working with suppliers, contractors, partners etc to ensure that inward and outward packaging is reduced/eradicated; that materials used are sustainably sourced and that there is inclusive action to identify credible options to plastic

6. Manchester Housing Providers Partnership (MHPP)

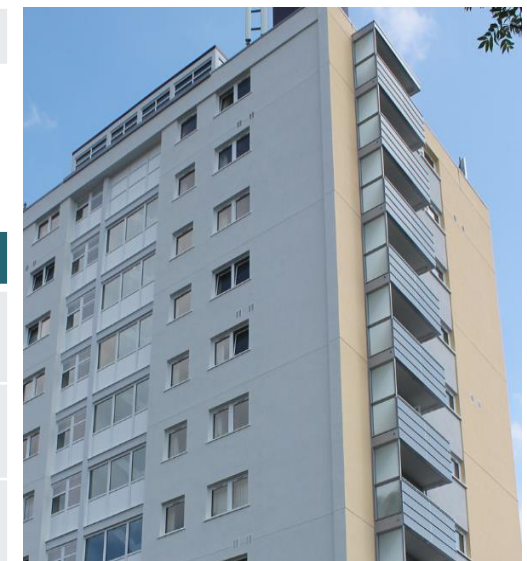
Profile:

- The Manchester Housing Providers Partnership (MHPP) brings together Manchester's registered housing providers.
- There are 17 registered housing providers that are all members with stock holdings across Manchester.



Buildings 187,800 tCO₂

| Transport | tCO ₂ e |
|-----------------|--------------------|
| Business travel | - |
| Staff commuting | - |
| Visitor travel | - |



¹2017 BEIS local emissions data (domestic total) apportioned based on the Manchester proportion of social housing (30%, Manchester Housing Strategy 2016 - 2025).

6. Manchester Housing Providers Partnership (MHPP)

The following is a summary of Manchester Housing Provider Partnership Zero Carbon Action Plan 2020-2025. The full plan can be found: <https://www.mhpp.info>

1. Headline achievements 2019/2020 - Your emissions: What are the two key actions that your organization/sector took between April 2019 to March 2020 to reduce the CO₂ emissions directly under its control?

- Agreed to develop investment plans to quantify the cost of making all assets zero carbon by 2025.
- Agreed to move to fully electrified fleet by 2025.

2. Headline achievements 2019/2020 - Your stakeholders: What are the two key actions that your organization/sector took between April 2019 to March 2020 to influence or support its stakeholders to reduce their CO₂ emissions?

- Agreed to become a fully Carbon Literate by 2025.
- Agreed to develop a communications strategy to be delivered through all available channels and action plan for targeted engagement.

3. Headline targets achieved by 2025: What specific CO₂ reduction targets do you aim to have achieved by 2025?

- Targets to be developed

4. Urgent Actions for 2020-2025 - Your emissions: What are some urgent actions your organization/sector will take in the next five years to reduce the CO₂ emissions directly under its control?

- All business decisions must demonstrate carbon reduction has been a key consideration through an environmental impact assessment.
- Assess current infrastructure and lease arrangements and move to a fully electrified fleet.
- Ensure all electrical energy procurement is through suppliers of renewable electricity.
- Consider renewable heating for all developments projects before gas boilers.

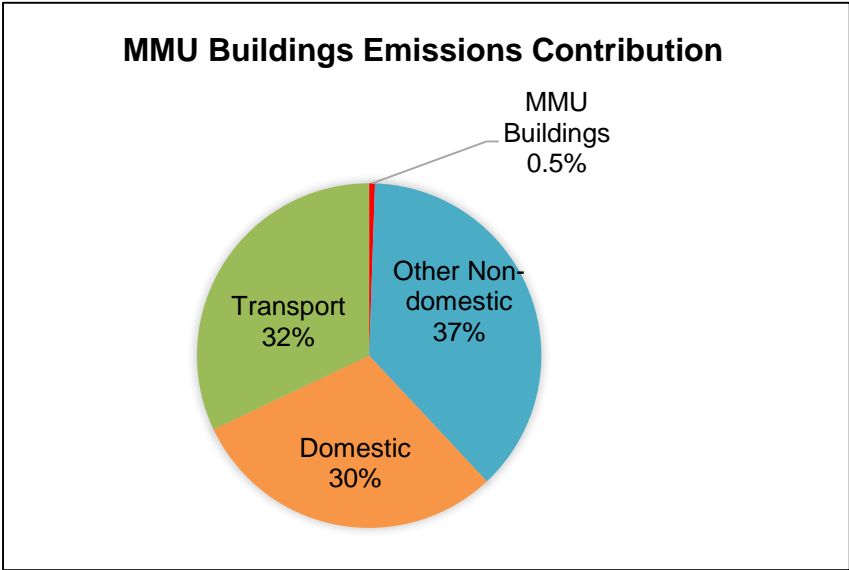
5. Urgent Actions for 2020-2025 - Your stakeholders: What are some urgent actions your organization/sector will take in the next five years to influence or support its stakeholders to reduce their CO₂ emissions?

- Develop procurement policy to ensure all contractors are assessed based on their own environmental policies.
- Develop a communications strategy to be delivered through all available channels and action plan for targeted engagement.

7. Manchester Metropolitan University (MMU)

Profile

- Manchester Metropolitan University is the sixth-largest university in the United Kingdom by enrollment (33,010 total students)
- Manchester Metropolitan University is the UK's second greenest university according to the People and Planet League 2019.



Buildings (Directly Owned & Controlled) 11,342 tCO₂e

| Transport | tCO ₂ e |
|------------------------------------|--------------------|
| Business travel | 1,621 |
| Staff commuting | 2,085 |
| Visitor travel (student commuting) | 11,030 |



7. Manchester Metropolitan University (MMU)



The following is a summary of Manchester Metropolitan University's Zero Carbon Plans. The University's full 2030 plan will be available in January 2021. The current 2020/21 plan is available at the following link <https://view.publitas.com/p222-7553/manchester-metropolitan-university-environmental-sustainability-strategy-2014-2020/page/1>

1. **Headline achievements 2019/2020 - Your emissions:** What are the two key actions that your organization/sector took between April 2019 to March 2020 to reduce the CO₂ emissions directly under its control?

- Completed an Estate Infrastructure Masterplan (2020-2030) which will establish three energy centres on campus. This has provided a pathway for the development of the Manchester Met Zero Carbon Management Plan, completed by July 2020. This will be re drafted every 6 years, to ensure the University is on a pathway to zero carbon by 2038 (Scope 1 and 2 emissions). The University has also reduced scope 1 and 2 carbon emissions by 48.2% (up to July 2019) from a 2005-06 baseline.
- Developed a new leadership and governance structure to steer the environment/climate agenda, chaired by the University's Provost and Deputy Vice-Chancellor.

2. **Headline achievements 2019/2020 - Your stakeholders:** What are the two key actions that your organization/sector took between April 2019 to March 2020 to influence or support its stakeholders to reduce their CO₂ emissions?

- Achieved level four (five is the highest) in the Sustainable Procurement Flexible Framework to ensure sustainability (including carbon reduction) is embedded into the University's tendering process.
- The University's Waste to Resource Innovation Network based within the Faculty of Science and Engineering secured £9.6m of European Regional Development funding to be part of new project called TRANSFORM-CE. In collaboration with 36 other Universities, government bodies and businesses across four countries, the project will aim to turn plastic waste into new products through additive manufacturing (3D printing) and injection moulding and supporting business to adopt circular economy models.
- Continued to deliver our Carbon Literacy training programme to our students with 320 students achieving certification in 2018/19.

3. **Headline targets achieved by 2025:** What specific CO₂ reduction targets do you aim to have achieved by 2025?

- Development and delivery of the Manchester Met's 2026 Carbon Management Plan developing a pathway to zero carbon by 2038, by July 2020.
- Development and delivery of a new Manchester Met 2030 Environmental Sustainability Strategy. This will include a number of objectives and targets that will work towards reducing scope 1, 2 and 3 emissions. It will include educating our staff and students, developing environmentally aware future leaders and conducting impactful world leading research to address climate change. Full Plan will be published in ~ January 2021

4. **Urgent Actions for 2020-2025 - Your emissions:** What are some urgent actions your organization/sector will take in the next five years to reduce the CO₂ emissions directly under its control?

- Development and delivery of the Manchester Met 2026 Carbon Management Plan developing a pathway to zero carbon by 2038.
- Delivery of a student led Carbon Literacy programme to the University's Leadership Forum (~ 100 leaders across the University).

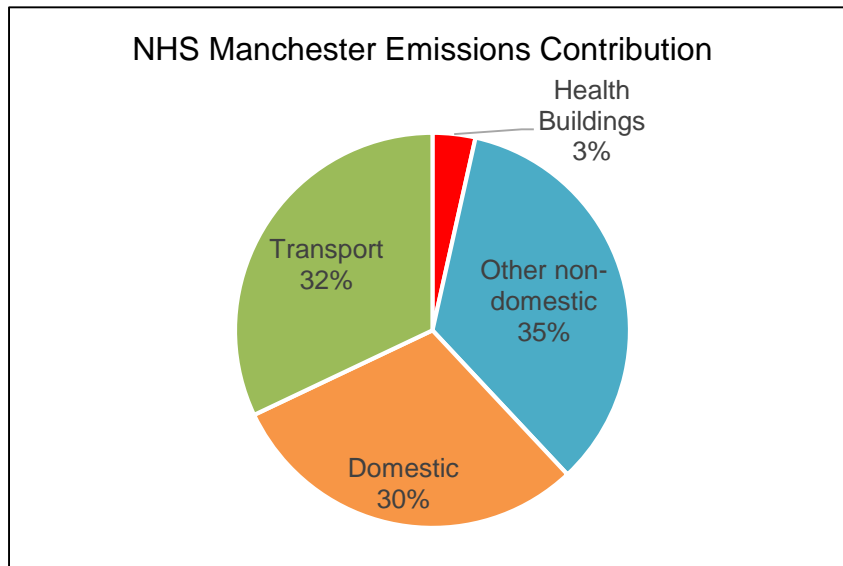
5. **Urgent Actions for 2020-2025 - Your stakeholders:** What are some urgent actions your organization/sector will take in the next five years to influence or support its stakeholders to reduce their CO₂ emissions?

- Development and delivery of a new 2030 Manchester Met Environmental Sustainability Strategy. This will include a number of objectives that will work towards reducing carbon scope 1, 2, and 3 emissions. It will include educating staff and students, developing environmentally aware future leaders and conducting impactful world leading research to address climate change.

8. NHS Manchester

Profile:

- There are numerous healthcare facilities across the city, in addition to NHS-owned and controlled fleet and transport emissions associated with patients, visitors and supply chains.
- In Manchester there are 9 hospitals plus GP surgeries, walk-in clinics and community healthcare facilities.
- The Sustainable Development Unit (SDU) collate and report NHS emission data.
- The current low-carbon investment strategy is looking at CHP, LED lighting, BMS optimisation and renewables.
- The NHS's footprint is directly impacted by other city sectors such as transport (air quality) and housing (social care/fuel poverty)



| | |
|--|-------------------------|
| Buildings (Directly Owned & Controlled) | 73,248 tCO ₂ |
|--|-------------------------|

| Transport | tCO₂ |
|------------------|------------------------|
| Business travel | 568 |
| Staff commuting | 8,100 |
| Visitor travel | 12,643 |



*The buildings and transport data was scaled up from Manchester Foundation Trust's (MFT) 2017/18 data which shows MFT to be 82% of the NHS Manchester footprint. These numbers therefore provide an estimate that will be refined when more representative primary data becomes available.

8. NHS Manchester



The following is a summary of Manchester University's NHS Foundation Trust's Sustainable Development Management Plan 2018-2023. Zero Carbon Action Plan 2020-2025. The full plan can be found: https://mft.nhs.uk/app/uploads/2020/01/SDMP_Refresh2020_FINAL.pdf

1. **Headline achievements 2019/2020 - Your emissions:** What are the two key actions that your organization/sector took between April 2019 to March 2020 to reduce the CO₂ emissions directly under its control?

We have continued with a programme of building energy upgrades. For example over 9,000 LED light fittings have been installed, saving 1,300,000kWh of electricity this year. Other schemes have included building management system upgrades and replacement of heating infrastructure.

Anaesthesia accounts for 4% of our carbon footprint. Anaesthetists are leading on a programme to implement measures to reduce this, including the elimination of the use of desflurane (unless medically indicated) across most hospitals and the removal of nitrous oxide back up cylinders.

2. **Headline achievements 2019/2020 - Your stakeholders:** What are the two key actions that your organization/sector took between April 2019 to March 2020 to influence or support its stakeholders to reduce their CO₂ emissions?

Throughout 2019/20 we have been working closely with the Integrated Care System (ICS) – the Greater Manchester Health and Social Care Partnership to collaborate with other GM healthcare organisations on a regional sustainability work programme. In November 2019, MFT publicly declared a climate emergency, committing to deliver the GM net zero carbon by 2038 target and fast tracking the delivery of our SDMP. This was widely communicated across our stakeholders and we will be building on this in 2020/21, by targeting areas of significant carbon hotspots. The National Greener NHS Campaign was launched in January 2020, and we contributed one of 3 NHS case studies for the launch materials, sharing our work on sustainable and active travel.

3. **Headline targets achieved by 2025:** What specific CO₂ reduction targets do you aim to have achieved by 2025?

We set targets in line with our SDMP, the current version of which runs until 2023. Our headline goal on carbon reduction is to reduce our core carbon emissions by 33% by 2023/24 against the 2017/18 baseline, working within our carbon budget for the period of this plan, and influence reductions in carbon emissions from our supply chain and community. Our publicly available plan shows the annual carbon budgets and trajectory, and we report on progress in our annual sustainability report.

4. Urgent Actions for 2020-2025 - Your emissions: What are some urgent actions your organization/sector will take in the next five years to reduce the CO₂ emissions directly under its control?

Our SDMP contains details of all our objectives that we will take to reduce the CO₂ emissions directly under our control. Some examples include;

- Adopt the GMCA zero carbon buildings by 2028 target for all new Trust developments. This includes the redevelopment of two major hospital campuses.
- Monitor utility consumption across the Estates and deliver a programme of targeted energy and water efficiency schemes to manage and drive down use.
- Increase on-site energy generation capacity from renewable sources
- Pilot the redesign of selected care pathways to drive out any unnecessary stages

5. Urgent Actions for 2020-2025 - Your stakeholders: What are some urgent actions your organization/sector will take in the next five years to influence or support its stakeholders to reduce their CO₂ emissions?

Our SDMP contains details of all our objectives that will influence or support stakeholders to reduce their CO₂ emissions. Some examples include;

- Include travel and transport sustainability criteria within key contracts
- Embrace new and existing digital technologies to reduce the environmental impact of care, prevent ill health and management long-term health conditions
- Adopt a whole life cycle approach to purchasing
- Weight social value outcomes when procuring new services in the design and building of a new space, for example, use of local suppliers and SMEs.

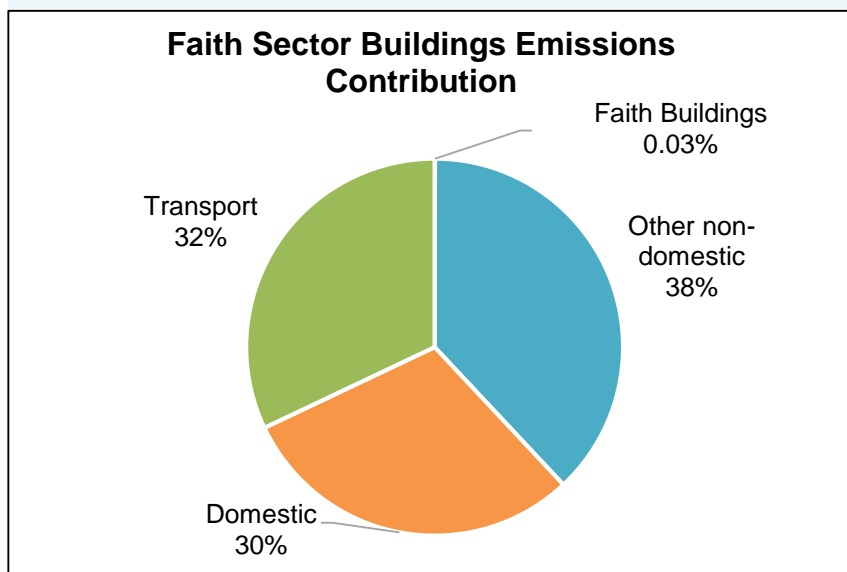
9. Our Faith, Our Planet (faith network)



Faith Network 4 Manchester
GREATER MANCHESTER
FAITH COMMUNITY LEADERS

Profile:

- The 'Our Faith Our Planet' group was established in 2017 to enable Manchester's faith sector to develop its response to climate change
- The Our Faith, Our Planet Group works with the Greater Manchester Faith Leaders group the the Faith Network 4 Manchester (interfaith) group
- The Our Faith, Our Planet group is currently made up of 10 faiths including Christian (Anglican, Catholic & Methodist), Buddhist, Hindu ,Sikh, Jewish, Jain, Bahá'í and Sufi Muslim.
- The faith sector is one of the most complex of all sectors represented in the Manchester Climate Change Partnership
- Action plan to be developed once resources have been secured.



| | |
|--|----------------------|
| Buildings (Directly Owned & Controlled) | 687 tCO ₂ |
|--|----------------------|

| Transport | tCO ₂ |
|-----------------|------------------|
| Business travel | - |
| Staff commuting | - |
| Visitor travel | - |



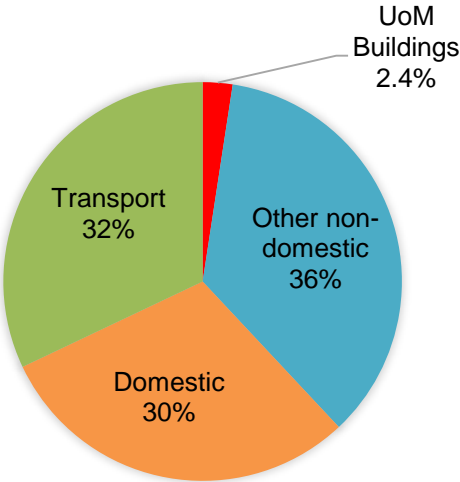
- Data based on registered places of worship in Manchester (420). ([2015 Places of Worship, HM Passport Office](#))
- Assuming an average square meterage based on capacity of building (c250m²).
- Applying an average CO₂ per m² (0.023482 tCO₂/m²) to the total floorspace estimated.
- Average CO₂ based on Bruntwood's 2017 CO₂e per m² (acknowledging this will be a significant underestimate for the faith sector due to lower efficiency/less frequent use etc).

10. University of Manchester (UoM)

Profile

- University of Manchester is the second-largest university in the United Kingdom by enrollment (40,490 total students).
- The University of Manchester is the largest single-site university in the UK.

UoM Buildings Emissions Contribution



| | |
|--|-------------------------|
| Buildings (Directly Owned & Controlled) | 50,535 tCO ₂ |
|--|-------------------------|

| Transport | tCO₂ |
|---------------------------------|------------------------|
| Business travel | 15,197 |
| Staff commuting | 7,445 |
| Visitor travel (student travel) | 3,371 |



10. University of Manchester (UoM)

The following is a summary of The University of Manchester Zero Carbon Action Plan 2020-2025. The full plan will be published in December 2020.

1. Headline achievements 2019/2020 - Your emissions: What are the two key actions that your organization/sector took between April 2019 to March 2020 to reduce the CO₂ emissions directly under its control?

- Revolving Green Fund - 3 LED lighting projects were completed in AV Hill, Williamson and Schuster, annual CO₂ savings are 116 tCO₂ and lifetime CO₂ savings are 2,300 tCO₂.
- Opened 2 BREEAM Excellent buildings, the Unsworth Park residences and the Henry Royce Institute. Completed a zero carbon study on the Royce building to provide design options for zero carbon research buildings.

2. Headline achievements 2019/2020 - Your stakeholders: What are the two key actions that your organization/sector took between April 2019 to March 2020 to influence or support its stakeholders to reduce their CO₂ emissions?

- Developed the [University vision and strategic plan](#) that adopts the city's zero carbon target, with a KPI for an average 13% year on year carbon reduction for Scope 1 and 2.
- Engagement programmes with staff and students :-
- Zero carbon workshop with senior managers across the estate, including key members of staff responsible for construction and operations.
- Launched Team Actions and LEAF, engaged over 450 staff in Green Impact, engaged with a network of 381 staff champions, actively working alongside 196 staff to implement changes including undertaking resilience and influencing training.
- Face-to-face and online Carbon Literacy training sessions (22 people certified).
- Launched a UCIL module on the Sustainable Development Goals; the course brings together more than 80 contributors from policy, practice, academia and the public. This includes experts from the Tyndall Centre for Climate Change Research, the Manchester Urban Institute, Industry 4.0, the Global Development Institute, the Humanitarian and Conflict Response Institute, and graduates of our Equity and Merit scholarship programme.
- 4,676 first year students completed half a day's action-based learning on sustainability as part of the University's Ethical Grand Challenges.

3. Headline targets achieved by 2025: What specific CO₂ reduction targets do you aim to have achieved by 2025?

- Carbon reduction pathway to zero carbon by 2038, which involves an average 13% annual reduction from a baseline 53,836 tCO₂ (2017/18) to 17,669 tCO₂ by 2025.
- Eliminating avoidable single use plastic from catering, stationery and laboratories by 2022.
- Business air travel reduction by 12% (based on km travelled) from 2014/15 baseline by 2022.

4. Urgent Actions for 2020-2025 - Your emissions: What are some urgent actions your organization/sector will take in the next five years to reduce the CO₂ emissions directly under its control?

- Publish our Zero Carbon Pathway document outlining steps necessary to achieve zero carbon, including:
 - Design and cost all ongoing works for zero carbon. Where funding is not available, have plans in place for retrofit in the future.
 - Start a programme of building retrofit for energy conservation.
 - Explore options for on-site and off-site renewables.
 - Research conversion of newer buildings to zero carbon operations.
 - Establish procedures to ensure new equipment purchases include lifecycle carbon impact.
 - Implement a behaviour change programme.
- Vacate buildings on the North Campus and occupy the new Manchester Engineering Campus Development reducing emissions by up to 46%.
- Action plan to reduce University related air travel.

10. University of Manchester (UoM)

5. Urgent Actions for 2020-2025 - Your stakeholders: What are some urgent actions your organization/sector will take in the next five years to influence or support its stakeholders to reduce their CO₂ emissions?

- Publish our Environmental Sustainability Framework for the University.
- Embed zero carbon and climate resilience within our Campus Masterplan and Estates Strategy.
- Launch an engagement platform for students to take action on sustainability and continue delivering Ethical Grand Challenges.
- Share the impact of the University's most significant research on environmental sustainability and climate change.
- Develop strategic partnerships to engage staff, students, alumni and other communities in responsible schemes to support proven natural solutions to capture carbon, restore the natural world and enhance environmental sustainability.
- Roll out Carbon Literacy training to staff, students and lab users.
- Deliver a programme of sustainability seminars to raise awareness and educate staff and students on developments in zero carbon opportunities.
- Continue to work alongside our supply chain to deliver carbon savings.
- Investigate devolved energy and carbon budgets.

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